UNITED STATES DISTRICT COURT

DISTRICT OF OREGON

PORTLAND DIVISION

MENTOR GRAPHICS CORPORATION,

an Oregon Corporation,

Plaintiff/Counter-defendant,

Case No. 3:10-cv-954-MO (lead) Case No. 3:12-cv-1500-MO Case No. 3:13-cv-579-MO

v.

OPINION AND ORDER

EVE-USA, INC., a Delaware corporation; and SYNOPSYS EMULATION AND **VERIFICATION S.A.,** formed under the laws of France.

Defendants/Counter-claimants.

SYNOPSYS, INC., a Delaware corporation; EVE-USA, INC., a Delaware corporation; and SYNOPSYS EMULATION AND **VERIFICATION S.A.**, formed under the laws of France,

Plaintiffs/Counter-defendants

v.

MENTOR GRAPHICS CORPORATION,

an Oregon corporation,

Defendant/Counter-claimant.

MOSMAN, J.,

On February 24, 2014, I held a claim construction hearing in the above-entitled patent actions. At issue were claim terms appearing in U.S. Patent Nos. 7,069,526 ("'526 patent"), 6,240,376 ("'376 patent"), 5,649,176 ("'176 patent"), 6,009,531 ("'531 patent), and 6,947,882 ("'882 patent"). In this Order, I announce my constructions of the following terms:

Claim Term	Construction
'526 Patent	
design visibility	"monitoring the entire or partial state of the DUT at, and relative to, predetermined events"
design patching	"altering the behavior of the DUT to a predetermined particular desired state at predetermined events"
design control	"methods to specify the events that control design visibility and design patching"
instrumentation circuitry	"additional circuitry to facilitate debugging"
aspect	"portion"
integrated circuit product	"one or more manufactured or configured chips that implement a design in the target technology"
'376 Patent	
gate-level netlist	"a list of gates and their inputs, outputs, and interconnects"
gate-level design	"a list of gates and their inputs, outputs, and interconnects"
instrumentation signal	"output signal added or preserved during logic synthesis that indicates whether a corresponding RTL source code statement is active"
simulating a gate-level design	"modeling the operation of a gate level design using software and/or hardware"
sensitivity list	"a list of signals to which a process is responsive"
process	"a description of the behavior of some portion of a circuit design"
generating logic	"generating gates"
'176 and '531 Patents	
logic system	"a system including one or more configurable logic devices into which the circuit design under test is configured"
configurable logic system	"a system including one or more configurable logic devices into which the circuit design under test is configured"
environment	"a real or simulated system or circuit, external to the configurable logic system, in which the circuit design under test is intended to operate"

environmental timing	"a timing signal, originating from the environment and received by the logic system, with a frequency that is lower than the internal clock
signal	frequency"
	"a signal existing within the configurable logic system and invisible to
	the environment that provides a time base for scheduling the operation
internal clock signal	of the resynthesized circuit"
'882 Patent	
reconfigurable logic	"chip that includes a plurality of reconfigurable logic elements and
device	input/output circuitry"
first plurality of	"two or more reconfigurable logic devices, none of which are included
reconfigurable logic	in the second plurality of reconfigurable logic devices or the third
devices	plurality of reconfigurable logic devices"
second plurality of	"two or more reconfigurable logic devices, none of which are included
reconfigurable logic	in the first plurality of reconfigurable logic devices or the third
devices	plurality of reconfigurable logic devices"
third plurality of	"two or more reconfigurable logic devices, none of which are included
reconfigurable logic	in the first plurality of reconfigurable logic devices or the second
devices	plurality of reconfigurable logic devices"
interconnect device	This term no longer appears in any patent claim at issue.
	"structure capable of receiving data from each reconfigurable logic
time multiplexed	device in one plurality and transmitting the data to each reconfigurable
interconnection	logic device in another plurality"
"independent"	"wherein there is no required timing relationship between clock
clocking	edges" ¹
circuit design	"a design for an integrated circuit"
	"a system capable of reproducing the operation of a circuit design
emulation system	through steps including mapping the circuit design onto hardware"
	"a system capable of reproducing the operation of a circuit design
emulator	through steps including mapping the circuit design onto hardware"

IT IS SO ORDERED.

DATED this 6th day of March, 2014.

/s/ Michael W. Mosman MICHAEL W. MOSMAN United States District Judge

¹ I remain uncertain as to whether the construction of this term should include further language referring specifically to the structures recited in claims 1 and 5 of the '882 patent. I invite the parties to submit any comments on this question by way of an email to my courtroom deputy clerk before the end of business on Friday, March 14, 2014.